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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,007	03/29/2006	Katsutoshi Nishizaki	4731-0131PUS1	4338
	7590 07/30/200 ART KOLASCH & BI	EXAMINER		
PO BOX 747	CH VA 22040 0747	MUSTAFA, IMRAN K		
FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			3663	
			NOTIFICATION DATE	DELIVERY MODE
			07/30/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)			
	10/574,007	NISHIZAKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	IMRAN MUSTAFA	3663			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earmed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29 M	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 29 March 2006 is/are: a	r election requirement. r. a)⊠ accepted or b)⊡ objected to	·			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/29/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1 rejected under 35 U.S.C. 102(b) as being anticipated by Shunichi (JP 2002-029433).

As to claim 1 Shunichi discloses an electric power steering system causing an electric motor to generate a steering assist force according to a steering torque(Abstract), comprising:

a torque sensor for detecting the steering torque (Abstract);

phase compensation means acting when a target control value of the electric motor is generated based on an output from the torque sensor(Abstract); and

means for varying the characteristics of the phase compensation means depending upon whether a steering mode is steer with driving or steer without driving (Abstract).

As to claim 2 Shunichi discloses an electric power steering system, wherein the phase compensation means includes a first phase compensator for steer with driving and a second phase compensator for steer without driving(Abstract), and

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wherein the means for varying the characteristics of the phase compensation means comprises means for making changeover of the phase compensators in order that the target control value is generated by means of the first phase compensator in the case of steer with driving and that the target control value is generated by means of the second phase compensator in the case of steer without driving (Abstract).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3, 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shunichi (JP-2002-029433) in view of Kawada(US 6,381,528)

As to claim 3 Shunichi discloses an electric power steering system wherein the phase compensation means includes a first phase compensator dedicated to steer with driving(Abstract), and a second phase compensator dedicated to steer without driving(Abstract)

Shunichi does not explicitly disclose of the phase compensator having a damping peak at a predetermined frequency. Kawada however teaches of a power steering system with a phase compensator having a damping peak at a predetermined frequency(Column 6 lines 7-35) wherein the damping peak of the second phase

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compensator is on a lower frequency side than the damping peak of the first phase compensator(Column 6 lines 7-35).

. According to KSR (G) some teaching, suggestion, or motivation in the prior art (improving the steering feel for a driver) that would have led one of ordinary skill to modify the prior art reference or to combine prior art reference teachings to arrive at the claimed invention.

As to claim 4 Shunichi discloses of a power steering system with a correcting means for making a phase delay correction (Abstract). Shunichi however does not explicitly disclose of a transfer function used for phase compensation. Kawada discloses an electric power steering system wherein the phase compensation means is represented by a transfer function G.sub.c(s) of the following formula, and parameters .zeta..sub.2 and .omega..sub.2 of the transfer function G.sub.c(s) are set to values to reduce or cancel a peak of a gain characteristic of an open-loop transfer function for torque of the electric power steering system, the peak appearing based on natural vibrations of a mechanical system and a counter-electromotive force of the motor: G.sub.c(s)=(s.sup.2+2.zeta..sub.2.omega..sub.2s+.omega..sub.2.sup.2)/(s.sup.2+2.zeta..sub.1S+.omega..sub.1.sup.2), where .zeta..sub.1 denotes a compensated damping coefficient; .zeta..sub.2 denotes a damping coefficient of a compensated system; .omega..sub.1 denotes a compensated natural angular frequency; and .omega..sub.2 denotes a natural angular frequency of the compensated system, all these symbols representing the parameters of the function G.sub.c(s)(Column 6 lines 7-35). According to KSR (G) some teaching, suggestion, or motivation in the prior art

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(improving the steering feel for a driver) that would have led one of ordinary skill to modify the prior art reference or to combine prior art reference teachings to arrive at the claimed invention.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to IMRAN MUSTAFA whose telephone number is (571)270-1471. The examiner can normally be reached on Mon-Fri 7:30AM-5:00PM, Alt Fri, Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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5/25/2009

/I. M./ Examiner, Art Unit 3663

/Jack W. Keith/ Supervisory Patent Examiner, Art Unit 3663